

REMARKS

Applicants appreciate the Examiner's reconsideration of the previous restriction and rejoining of previous Groups II and III.

Claims 1-32 are pending and have now been restricted under 35 U.S.C. § 121 into the following groups:

Group I: Claims 1-10, drawn to a method for identifying a polypeptide that binds a ligand; and

Group II: Claims 11-32, drawn to a method for identifying a member of a pharmacofamily involving comparing a sequence of polypeptide to a sequence model for polypeptides of a pharmacofamily.

The Examiner requests that one of the groups of claims be elected for examination. Applicants elect the claims of Group II, claims 11-32, for examination.

The Examiner has additionally requested that a species election be made. Applicants elect the species Hidden Markov Model. The claims readable on the elected species include claims 11-14, 18-25, and 29-32.

Applicants elect the claims of Group II, claims 11-32, for examination. Applicants further elect the species of Hidden Markov Model. The Examiner is invited to call the undersigned agent if there are any questions.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 502624 and please credit any excess fees to such deposit account.

Respectfully submitted,

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